Ontario

Ministry of Natural Resources

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

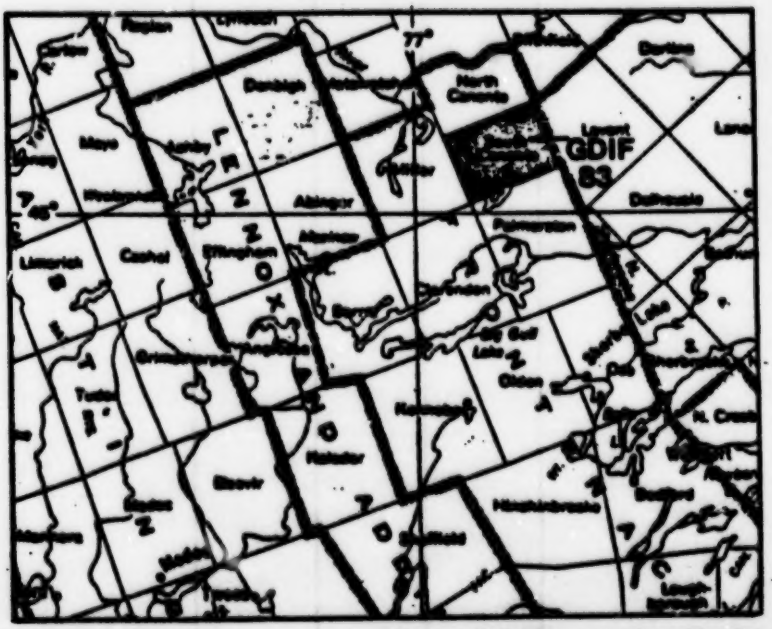
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 83

SOUTH CANONTO TOWNSHIP

FRONTENAC COUNTY

Compiled by the Staff of
the Resident Geologist's Office,
Tweed



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

NTS Number 31F/2

Mining Claim Map Number 68

This project was funded by the Mining Sector Work Program under the sponsorship of Barrie Township.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1984: South Canonto Township, Frontenac County; Ontario Geological Survey, Geological Data Inventory Folio 83, Compiled by the staff of the Resident Geologist's office, Tweed, 16p. and 2 maps.

Original Compilation by: John Easton, January 10, 1983.

Date	Page Revised	Revised by

Date	Page Revised	Revised by

SOUTH CANONTO TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map - 1 map

Exploration Data Map - 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	**20.116 8**	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
		AREA			
1 cm²	0.155 0	square inches	1 square inch	**6.451 6**	cm²
1 m²	10.763 9	square feet	1 square foot	**0.092 903 04**	m²
1 km²	0.386 10	square miles	1 square mile	**2.589 988**	km²
1 ha	2.471 054	acres	1 acre	**0.404 685 6**	ha
		VOLUME			
1 cm³	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm³
1 m³	35.314 7	cubic feet	1 cubic foot	**0.028 316 85**	m³
1 m³	1.308 0	cubic yards	1 cubic yard	**0.764 555**	m³
		CAPACITY			
1 L	1.759 755	pints	1 pint	**0.568 261**	L
1 L	0.879 877	quarts	1 quart	**1.136 522**	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	**28.349 523**	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	**34.285 714 2**	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	**1.714 285 7**	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this map. If no reference data was found, the appropriate box is marked 'no'; if reference was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	J.E.
2	Assessment Files Research Office, Toronto	Yes	J.E.
3	ODM General Index; 7 volumes	Yes	J.E.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	J.E.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	J.E.
6	ODM Industrial Mineral Reports	Yes	J.E.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	N.A.	J.E.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	N.A.	J.E.
9	Newspaper Clippings File	N.A	J.E.
10	GSC Index to Publications	N.A.	J.E.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	J.E.
12	OGS Index Maps	Yes	J.E.
13	Source Mineral Deposit Records (O.G.S.)	Yes	J.E.
14	Author - Subject Articles File	N.A.	J.E.
15	Miscellaneous Papers: ODM & OGS	No	J.E.
16	ODM Geological Circulars: OGS Study Series	No	J.E.
17	ODM Preliminary Reports: ODM Bulletins	Yes	J.E.
18	ODM – OGS Open File Reports	Yes	J.E.
19	OGS Northern Ontario Engineering Geology Terrain Studies	N.A.	J.E.
20	OGS Aggregate Resources Inventory Papers	N.A.	J.E.
21	OGS Mineral Potential Maps	Yes	J.E.
22	Aerial Photographs on file, Tweed	Yes	J.E.

METALS AND MINERALS REFERENCES LIST

- ▲ anh. . . . . Anhydrite
- ▲ ank. . . . . Ankerite
- ▲ anno. . . . . Annaberglte
- ▲ ap. . . . . Apatite
- ▲ arg . . . . . Argentite
- ▲ As . . . . . Arsenic
- ▲ asp . . . . . Arsenopyrite
- ▲ asb . . . . . Asbestos
- ▲ ba. . . . . Barite
- ▲ be. . . . . Beryl
- ▲ Bi. . . . . Bismuth
- ▲ bn . . . . . Bornite
- ▲ bran . . . . . Brannerite
- ▲ bruc . . . . . Brucite
- ▲ Cd . . . . . Cadmium
- ▲ calc. . . . . Calcite
- ▲ carb . . . . . Carbonate
- ▲ cel . . . . . Celestite
- ▲ cc. . . . . Chalcocite
- ▲ cp. . . . . Chalcopyrite
- ▲ ch. . . . . Chert
- ▲ clay . . . . . Clay
- ▲ Co . . . . . Cobalt
- ▲ cob. . . . . Cobaltite
- ▲ cb. . . . . Columbite
- ▲ Cu . . . . . Copper
- ▲ cor . . . . . Corundum
- ▲ dol . . . . . Dolomite
- ▲ ep. . . . . Epidote
- ▲ ery . . . . . Erythrite
- ▲ fel . . . . . Feldspar
- ▲ fl . . . . . Fluorite (fl=spar)
- ▲ fu. . . . . Fuchsite
- ▲ gn. . . . . Galena
- ▲ gt. . . . . Garnet
- ▲ goe. . . . . Goethite
- ▲ Au . . . . . Gold
- ▲ gf. . . . . Graphite
- ▲ gl . . . . . Gravel
- ▲ gyp. . . . . Gypsum
- ▲ hem . . . . . Hematite
- ▲ il . . . . . Ilmenite
- ▲ Fe . . . . . Iron
- ▲ IF. . . . . Iron Formation
- ▲ jas . . . . . Jasper
- ▲ kaol . . . . . Kaolinite (kaolin)
- ▲ ky . . . . . Kyanite
- ▲ Pb . . . . . Lead
- ▲ lim . . . . . Limonite
- ▲ Li. . . . . Lithium
- ▲ mgst . . . . . Magnesite
- ▲ mag . . . . . Magnetite
- ▲ mc . . . . . Malachite
- ▲ Mn . . . . . Manganese
- ▲ mb. . . . . Marble
- ▲ mar. . . . . Marcasite
- ▲ ms . . . . . Marl
- ▲ mi . . . . . Mica
- ▲ mi . . . . . Millerite
- ▲ mo . . . . . Molybdenite
- ▲ Mo . . . . . Molybdenum
- ▲ mon . . . . . Monazite
- ▲ ne. . . . . Nephelite (nepheline)
- ▲ nc. . . . . Niccolite
- ▲ Ni. . . . . Nickel
- ▲ Nb . . . . . Niobium
- ▲ Pd . . . . . Palladium
- ▲ peat . . . . . Peat
- ▲ pent . . . . . Pentlandite
- ▲ Pt. . . . . Platinum
- ▲ py . . . . . Pyrite
- ▲ pyl . . . . . Pyrochlore
- ▲ pyrl . . . . . Pyrolusite
- ▲ po . . . . . Pyrrhotite
- ▲ q . . . . . Quartz
- ▲ qcv. . . . . Quartz carbonate vein
- ▲ rs. . . . . Radioactive minerals
- ▲ RE . . . . . Rare Earths
- ▲ sd. . . . . Sand
- ▲ sgl . . . . . Sand and gravel
- ▲ ss . . . . . Sandstone
- ▲ scap . . . . . Soapstone
- ▲ shee . . . . . Schelite
- ▲ serp . . . . . Serpentine
- ▲ sh. . . . . Shale
- ▲ sid . . . . . Siderite
- ▲ si . . . . . Silica
- ▲ Ag . . . . . Silver
- ▲ sl . . . . . Slate
- ▲ sm . . . . . Smaltite
- ▲ sod. . . . . Sodalite
- ▲ spec . . . . . Specularite
- ▲ sp. . . . . Sphalerite
- ▲ spd. . . . . Spodumene
- ▲ staur. . . . . Staurolite
- ▲ stib. . . . . Stibnite
- ▲ st . . . . . Stone
- ▲ talc. . . . . Talc
- ▲ Te . . . . . Tellurium
- ▲ td. . . . . Tetrahedrite
- ▲ th. . . . . Thorite
- ▲ Th . . . . . Thorium
- ▲ thuc . . . . . Thucholite
- ▲ ti . . . . . Titanite
- ▲ Ti. . . . . Titanium
- ▲ tour . . . . . Tourmaline
- ▲ trap . . . . . Trap rock
- ▲ W. . . . . Tungsten
- ▲ uran . . . . . Uraninite
- ▲ U . . . . . Uranium
- ▲ verm. . . . . Vermiculite
- ▲ Y. . . . . Yttrium
- ▲ Zn . . . . . Zinc
- ▲ zr. . . . . Zircon
- ▲ Cs. . . . . Cesium

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Bordin	U,Th,Ce,Y, Nb, pyl		NMI File 31F/2 U_3	OGS 1980,Map P2210,1:126 720 OGS 1980,OFR 5294,p.224-226 AFRO 1970, #63E.28 AFRO 1969, #63,2758
B	J. C. Honsberger	U,Th		NMI File 31F/2 U_3	OGS 1980,OFR 5294, p.227-228 AFRO 1969, #63E.20 OGS 1980, Map P2210,1:126 720
C	Longstone Lake Con. V, Lot 20	Fe(mag)		Mines Br. Rept.217, Vol. 2, 1917 OGS 1980, MDC 20,p. 123-124 + P.2211 IOC 1923 OGS 1968, MRC 11, p. 142	OGS 1956, Map 1956-4,1:63360, Vol. 56, Pt.7, P. L. Smith
D	Mosque Lake Talc Property	talc,Cu, Zn,Pb		OGS 1972, IMR 40, p.24-25 Mines Br. Rept.803, 1940	Lot 1-2, Con. I OGS 1956 An. Rept. Vol. 65, Pt. 7, p. 45-46 NMI File 31 F/2 TLC 1 OGS 1956,Map 1956-4,1"=1 mile
E	Summit Lake	Fe		OGS 1980,MDC 20, p. 124-125 OGS 1968,MRC 11, p. 143	OGS 1979,Map P2211,"Base and Precious Metals, Iron and Molybdenum Deposits, Pembroke-Renfrew Area", 1:126 720 1:2 mi.
	-continued-				

SOUTH CAMONTO TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Secret Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
F	Con. II, Lot 22	gf		GSC An. Rept. Vol. 12, 1898	
G	Con. III, Lots 7, 8	hem		GSC Mem. 74, 1915	
H	Con. III, Lot 23	gf		Mines Br. Rept.511, 1920	
	Mica			CIM Bull. Vol.XIII, No. 103 GSC An. Rept. Vol. 9, 1896	

SOUTH CAMONTO TOWNSHIP

MINERAL OCCURRENCES			Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization			

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	GRAVITY	PLUGGER	MECHANICAL	OTHER REPORTS
	COMPANY/AUTHOR (file number)																				
1	Beach Gold Mines Ltd. Lot 1-7, Con. IV-VI										76										
2	Bordun Mining Corp. Ltd. Lot 2-3 N½, Con. V																		69		
3	Bordun Mining Corp. Ltd. Lot 2-4, Con. IV-V													69							
4	Bordun Mining Corp. Ltd. Lot 1-6, Con. III(N½)-VI	70				70								70							70
5	J.C. Honsberger Lot 2 S½, Con. VIII																		69		
6	J.P. Honsberger Lot 1-7, Con. IV-VI				77									77						77	
7	L.G.D. Thompson Lot 13-14, Con. III											58						58			
8	L.D.G. Thompson Lot N½ 13-14, 15, Con. III											61									
9	L.D.G. Thompson Lot S½ 14, Con. III				62																

GDIF FORM NO. 2

SOUTH CANONTO TOWNSHIP

DRILL HOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drill Hole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden Metres	Total Length of Hole Metres	Mineralization Noted in Log	Assay Data Included for
1	L. G. D. Thompson	6	6/1962	-	-	3.7	163.7	Mag, Au, po	
A		1	6/1962	-	90	-	62.5	Mag	
B		2	6/1962	-	-	-	50.9	Mag	
C		3	6/1962	-	90	-	32.	Mag	
2 A	Beach Gold Mines Ltd.	1	2/1977	157	-50	1.8	121.9		Au
B		2	3/1977	157	-50	-	118.9		U_3O_8
C		3	3/1977	157	-50	3.	76.2		U_3O_8
D		4	3/1977	157	-50	2.4	61.		U_3O_8
E		5	3/1977	157	-50	1.2	79.2		U_3O_8

6017 FORM NO. 3

SOUTH CANONTO TOWNSHIP

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

GDIF FORM NO. 4

SOUTH CAMOTO TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 6

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kemptville, Ontario

ODM GENERAL INDEX SEARCH

Words searched: CANONTO, SOUTH CANONTO

Index Volume	Listing:	Report Volume	Part	Page
1	Chalcopyrite	9		196
	Graphite Mining	11		203
	Hematite	9		199
	Mica	9		203
4	Talc Mining (1941)	51	1	233
	(1942)	52	1	227
6	Magnetite	65	7	46
	Talc	65	7	45
	Canonto Lake or Trout Lake Rocks	65	7	23

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
O.G.S.	1956	Clarendon-Darling-Dalhousie Area, Counties of Frontenac and Lanark	Map 1956-4	1:63 360
O.G.S.	1979	Base and Precious Metals, Iron and Molybenum Deposits of the Pembroke-Renfrew Area	Map P.2211	
		GEOPHYSICAL MAPS		
G.S.C.	1981	Aeromagnetic Maps of Ontario - South Canonto Township	68G	1:63 360
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
O.G.S.	1973	Southern Ontario Physiography	Map 2227	
		MINERAL POTENTIAL MAPS		
Springer, Janet	1978	Ontario Mineral Potential, Pembroke and Part of the Ottawa Sheets, District of Nipissing and Counties of Renfrew, Hastings, Lennox and Addington, Frontenac, Lanark, Ottawa-Carleton, Grenville, and Dundas Mineral Deposits Series	OGS Map P. 1507	1:250 000
		GEOCHEMICAL		

SELECTED REFERENCES

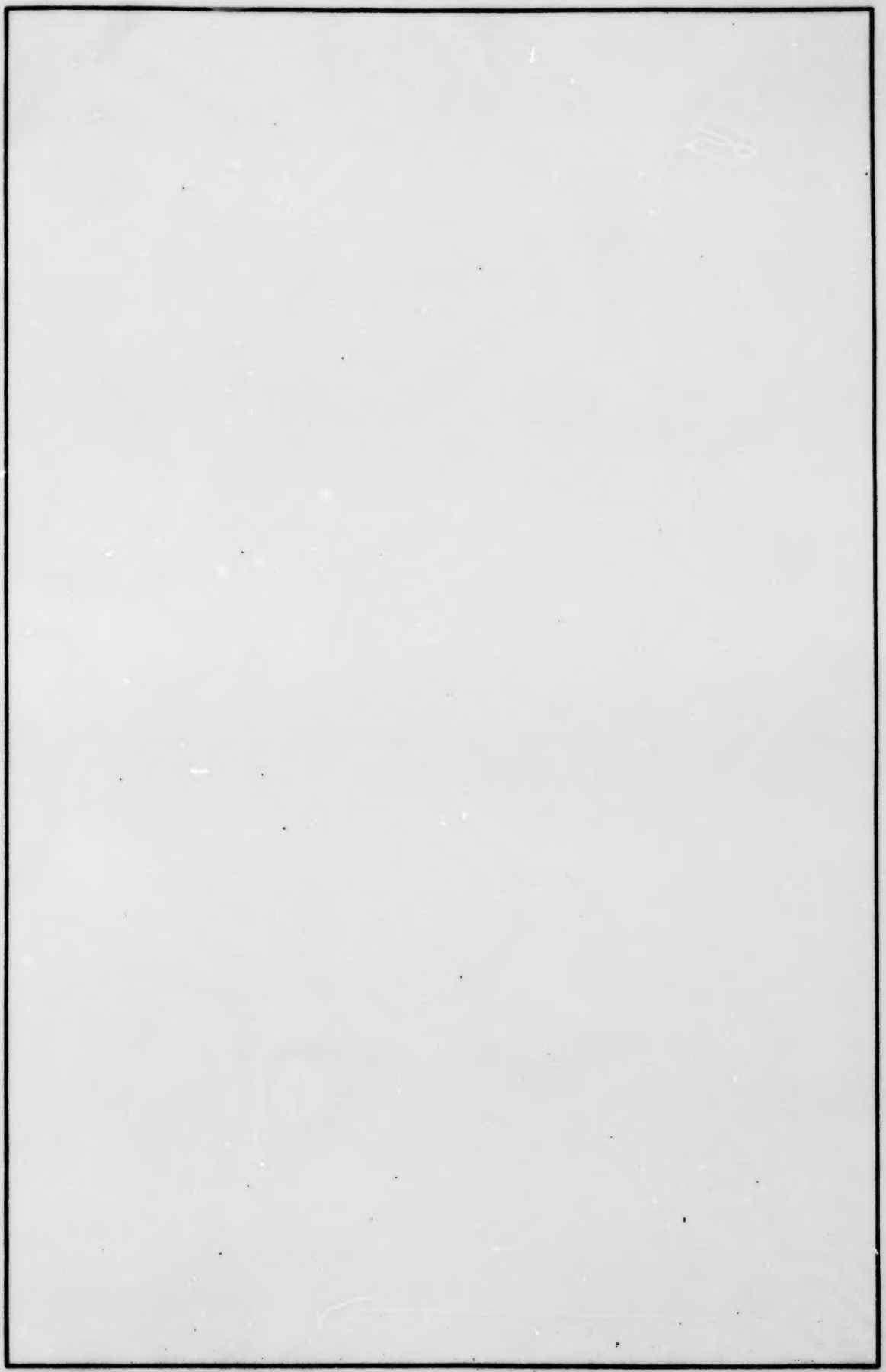
Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
O.G.S.	1980	Radioactive Mineral Deposits of the Pembroke-Renfrew Area, Southern Ontario	O.G.S. MDC 20, Map P.2210	1" - 2 mi.
Smith, B. L.	1951	Geology of South Canonto and Parts of Palmerston and Lavant Township, Frontenac and Lanark Counties.	O.G.S. PR1951-4	
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		

GDIF FORM NO. 9

NOTES AND ADDENDA

AERIAL PHOTOGRAPHS ON FILE

Year	Line Number	Roll Number	Photo Number
1978	4510	79	61 - 65
1978	4509	195, 281	36 - 41 117 - 120
1978	4508	144	200 - 206
1978	4507	111	40 - 54
1978	4506	195	42 - 59
1978	4505	187	36 - 55
1978	4504	116	57 - 70
1978	4503	154	133 - 141
1978	4502	154	240



SOUTH CANONTO TOWNSHIP

MAPS NOT

FILMED

CARTES

OMISES